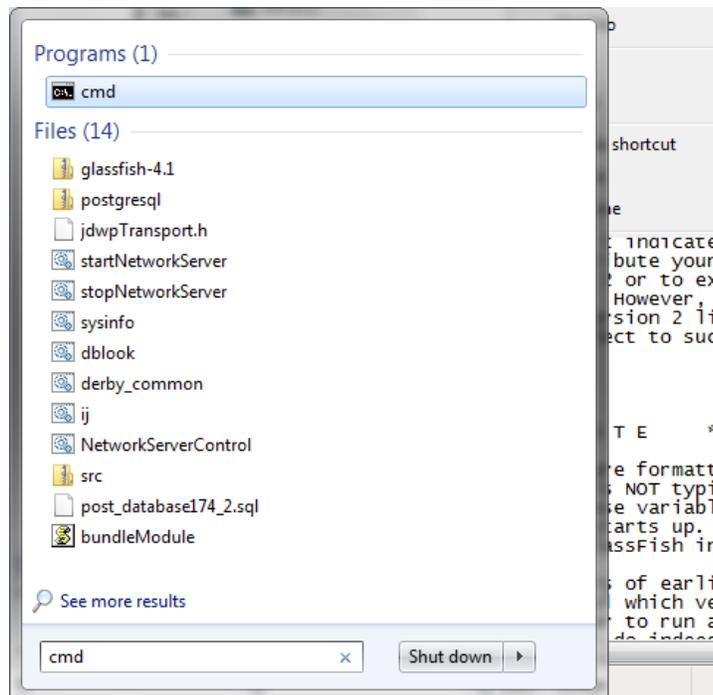


How to Configure the WebLogic Application Server for use with PowerLOGJ 2.0 in a Windows Environment

1. Install Java Development Kit (JDK) 1.7 or greater if Java is currently not installed on the server machine.
2. Install WebLogic 12.x with all default values, by following the Oracle documentation.
3. Configure WebLogic to deploy the PowerLOGJ 2.0 web application. Follow Oracle's documentation to perform the following
 - a. Double Click on the "wlsxxx.zip" file (where xxx is the version number) to extract contents into a directory.
 - b. Open a Windows "Command Prompt" by searching for and typing "cmd" using the Windows Button in the lower left had corner of the screen.



- c. Type "set MW_HOME=<installation path>", "where installation path" is the location in the previous step to set the "MW_HOME" environmental variable. In this case the "set MW_HOME=C:\Apps\wls1213_dev".

```
C:\Windows\system32\cmd.exe
C:\Users\motquinsm\Desktop>
C:\Users\motquinsm\Desktop>
C:\Users\motquinsm\Desktop>
C:\Users\motquinsm\Desktop>
C:\Users\motquinsm\Desktop>glassfish-3.1.2.2-windows.exe -j "C:\Program Files\Java\jre1.8.0_25"
Access is denied.

C:\Users\motquinsm\Desktop>glassfish-3.1.2.2-windows.exe -j "C:\Program Files\Java\jre1.8.0_25"

C:\Users\motquinsm\Desktop>set MW_HOME=C:\Apps\wls1213_dev
C:\Users\motquinsm\Desktop>cd ..

C:\Users\motquinsm>cd C:\Apps\wls1213_dev
The system cannot find the path specified.
C:\Users\motquinsm>cd ..
```

- d. B Type “set JAVA_HOME=<installation path>”, “where installation path” is the location of the Java Development Kit (JDK) performed in the previous step to set the “JAVA_HOME” environmental variable. In this case the “set JAVA_HOME=C:\Program File\Java\jdk1.8.0_25”.

```
WLS - 572 more files to unpack
C:\Apps\wls1213_dev\wls12130>%JAVA_HOME%
'C:\PROGRA~1\Java\jre7\bin' is not recognized as an internal or external command,
operable program or batch file.

C:\Apps\wls1213_dev\wls12130>set JAVA_HOME="C:\Program Files\Java\jdk1.8.0_25"

C:\Apps\wls1213_dev\wls12130>configure.cmd
*****
WebLogic Server 12g [12.1.3.0] Zip Configuration

MW_HOME:    C:\Apps\WLS121~1
JAVA_HOME:  C:\PROGRA~1\Java\JDK18~1.0_2
*****

740 jar files are being unpacked.
Please wait, title bar will show progress ...
```

- e. Using the “Windows Command Prompt” run the “setWLSenv.cmd” to WLS Environment Variables located at the follow location
“%MW_HOME%\wlserver\server\bin\setWLSenv.cmd”

```
C:\Windows\system32\cmd.exe

C:\Apps\wls1213_dev\wls12130\wlserver>dir
Volume in drive C is OS
Volume Serial Number is E0C8-E3C9

Directory of C:\Apps\wls1213_dev\wls12130\wlserver

12/22/2014 09:42 AM <DIR>          .
12/22/2014 09:42 AM <DIR>          ..
12/22/2014 09:42 AM                525 .product.properties
12/18/2014 01:25 PM <DIR>          common
12/22/2014 07:39 AM <DIR>          inventory
12/22/2014 08:48 AM <DIR>          modules
12/18/2014 01:30 PM <DIR>          orasocket
12/22/2014 06:57 AM <DIR>          plugins
12/22/2014 07:38 AM <DIR>          server
12/22/2014 07:39 AM <DIR>          sip
                1 File(s)              525 bytes
                9 Dir(s)      875,895,848,960 bytes free

C:\Apps\wls1213_dev\wls12130\wlserver>cd server
C:\Apps\wls1213_dev\wls12130\wlserver\server>cd bin
C:\Apps\wls1213_dev\wls12130\wlserver\server\bin>setWLSENU.cmd
```

- f. Run the “configure” script in the “WH_HOME” directory. This will set all environmental variable for WebLogic and it will also create a WebLogic domain, “mydomain” and server “myserver”.

```
C:\Windows\system32\cmd.exe

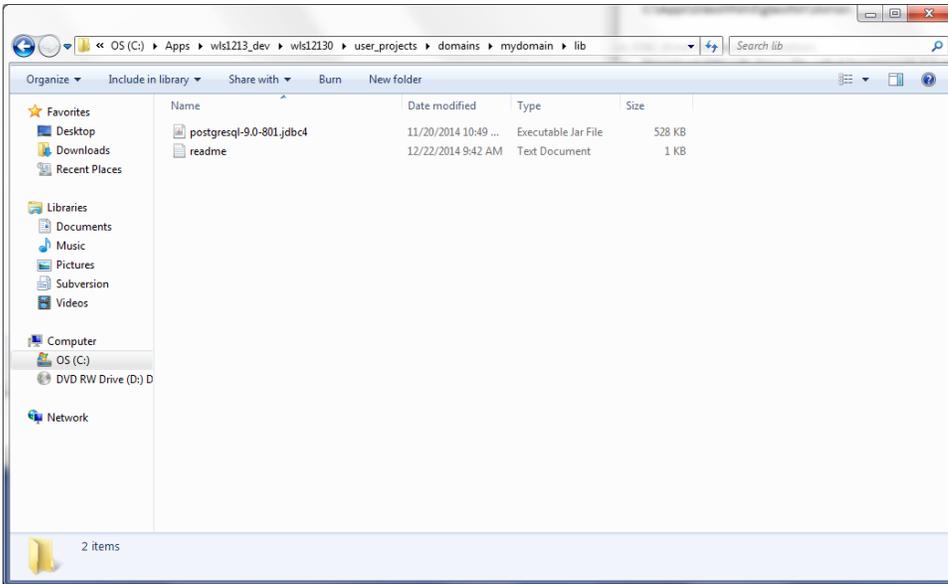
Directory of C:\Apps\wls1213_dev\wls12130

12/22/2014 09:40 AM <DIR>          .
12/22/2014 09:40 AM <DIR>          ..
12/18/2014 12:13 PM <DIR>          coherence
12/18/2014 12:15 PM <DIR>          common
12/18/2014 12:12 PM                5,678 configure.cmd
12/18/2014 12:12 PM                6,599 configure.sh
12/18/2014 12:12 PM                3,699 configure.xml
12/22/2014 09:42 AM                218 domain-registry.xml
12/22/2014 07:39 AM <DIR>          inventory
12/22/2014 08:47 AM <DIR>          oracle_common
12/18/2014 12:12 PM                153 oraInst.loc
12/18/2014 12:12 PM                4,998 osarch.xml
12/18/2014 01:24 PM <DIR>          oui
12/22/2014 09:40 AM                6,437 README.txt
12/18/2014 12:12 PM                6,437 README_WIN.txt
12/22/2014 09:42 AM                43 silent_install_ant.log
12/22/2014 09:40 AM <DIR>          user_projects
12/22/2014 09:42 AM <DIR>          wlserver
                9 File(s)              34,262 bytes
                9 Dir(s)      875,895,427,072 bytes free

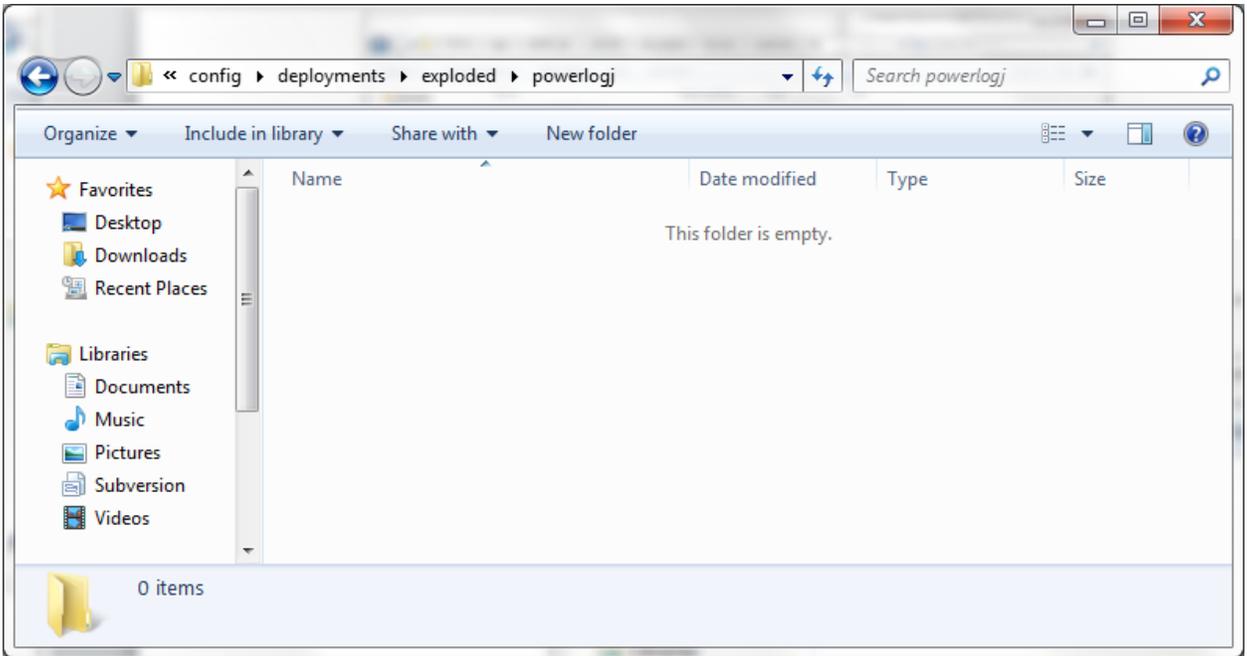
C:\Apps\wls1213_dev\wls12130>configure_
```

- g. The script will take several minutes to execute.
 - i. Type in “Y” and press “Enter” to create the domain “mydomain.”
 - ii. Type in “username” for the “mydomian” username.
 - iii. Type in “password” for the “mydomain” password.

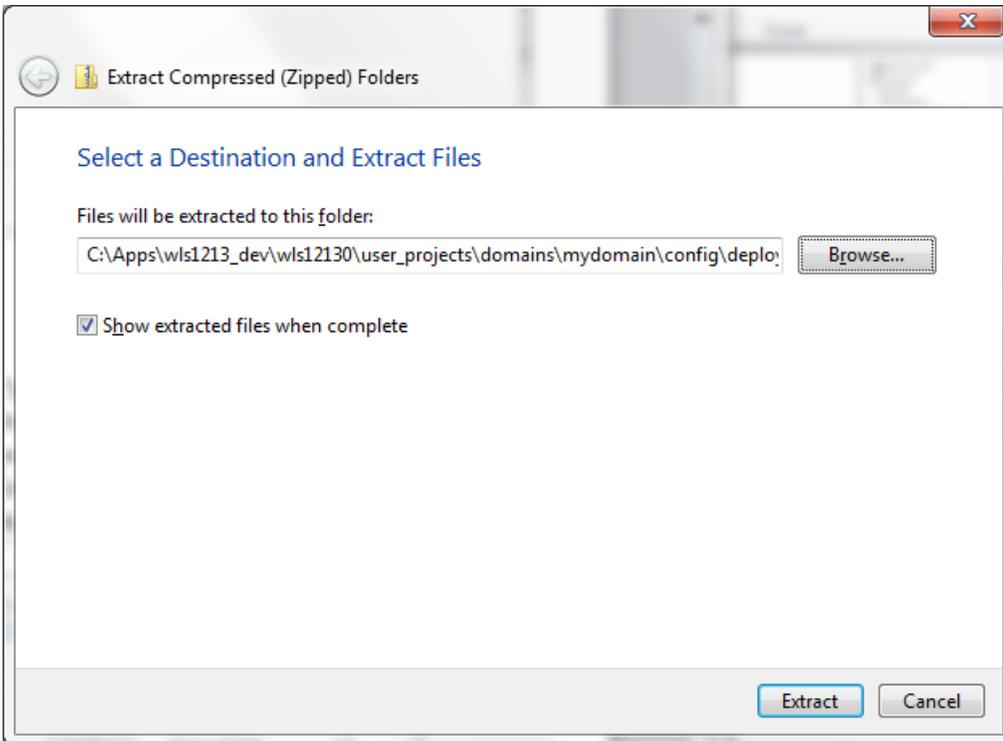
- h. At this time, WebLogic has created all of its required directories, subfolders, and services. WebLogic will create “mydomain” underneath WebLogic’s “domains” underneath the WebLogic installation directory. In this case “C:\Apps\wls1213_dev\wls12130\user_projects\domains\mydomain.”
4. Place JDBC driver file in correct location by downloading JDBC URL Driver file called “postgresql-9.0-801.jdbc4.jar” from PostgreSQL’s website and place the file in the “Domain’s lib” directory



5. Double click on the “PowerLOGJ2-Enterprise.exe” and follow the instructions to extract the necessary files.
6. Using “Windows Explorer” create a directory called “exploded/powerlogj2”

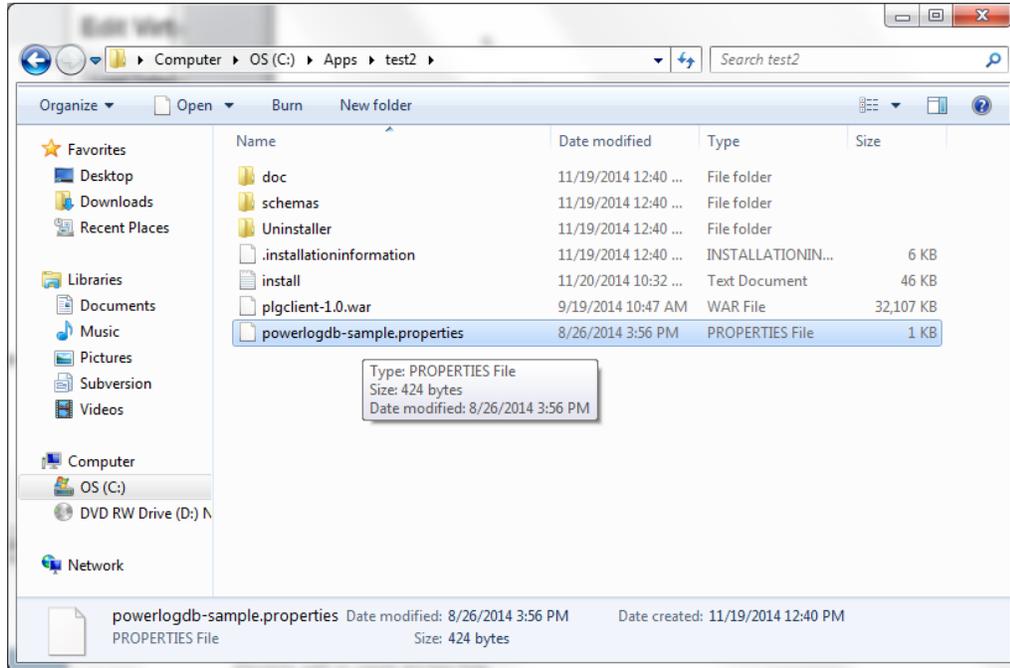


- Using "WinZip" or the default "windows file extract utility", extract all files to the "exploded\powerlogj" directory. In this cases, "C:\Apps\wls1213_dev\wls12130\user_projects\domains\mydomain\config\deployment\exploded\powerlogj".

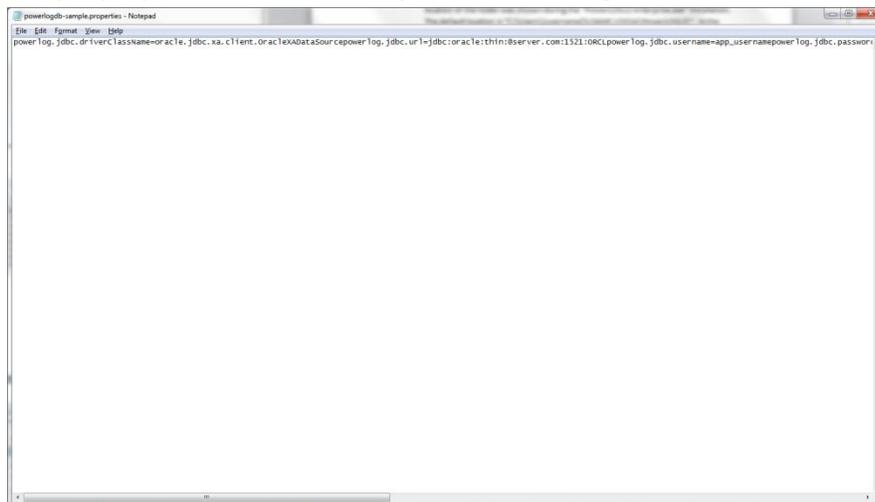


- Create database Properties File.

- a. Using “Windows Explorer” browse to the “powerlogdb-sample.properties” file. The location of the folder was chosen during the “PowerLOGJ2-Enterprise.exe” installation. The default location is “C:\Users\{username}\USAMC LOGSA\PowerLOGJ2\”. In the case shown below, the file is located in C:\Apps\test2\schemas directory. Run the “PowerLOGJ2-Enterprise.exe” if not already done.



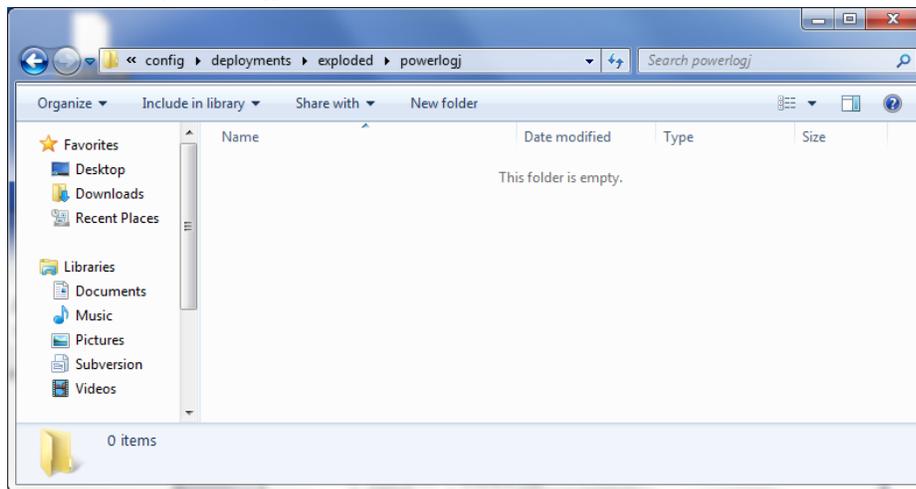
- b. Using a text editor, such as, NotePad, WordPad, TextPad, open the “powerlogdb-sample.properties” file. The sample file is for using an Oracle database.



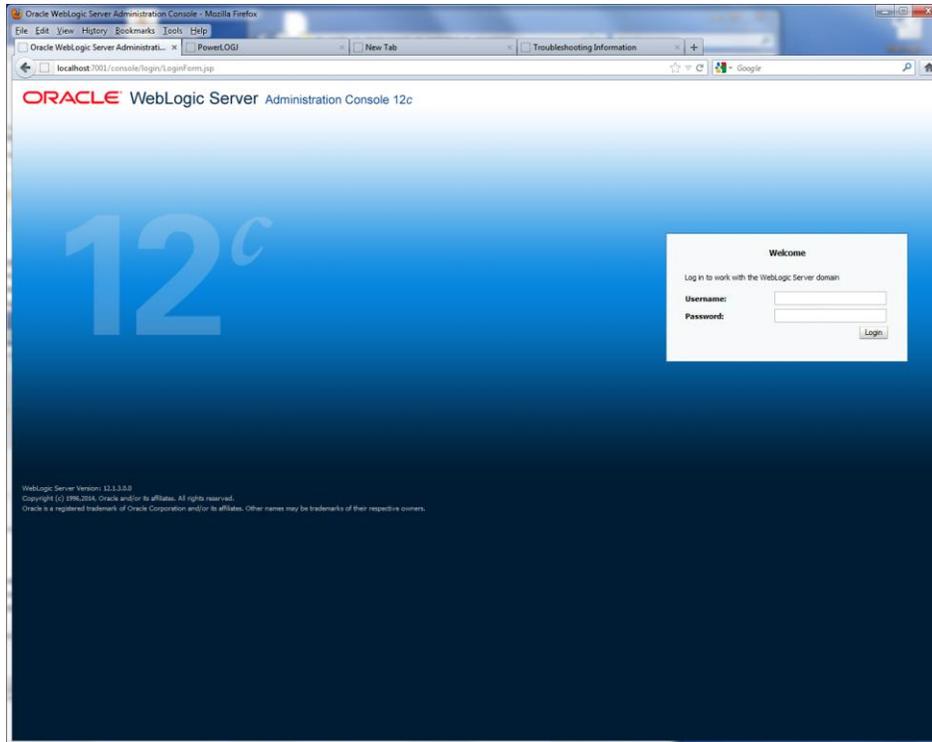
- c. Modify the file as shown below. The “<password>” will need to be changed to the actual passwords for the “powerlogdb” and “powerlogrealm” databases configured during the configuration of the PostgreSQL database installation.

```
powerlog.jdbc.driverClassName=org.postgresql.xa.PGXDataSource
powerlog.jdbc.url=jdbc:postgresql://localhost:5432/powerlogdb
powerlog.jdbc.username=pljdatuser
powerlog.jdbc.password=<password>
powerlogrealm.jdbc.driverClassName=org.postgresql.xa.PGXDataSource
powerlogrealm.jdbc.url=jdbc:postgresql://localhost:5432/powerlogrealm
powerlogrealm.jdbc.username=postgres
powerlogrealm.jdbc.password=<password>
```

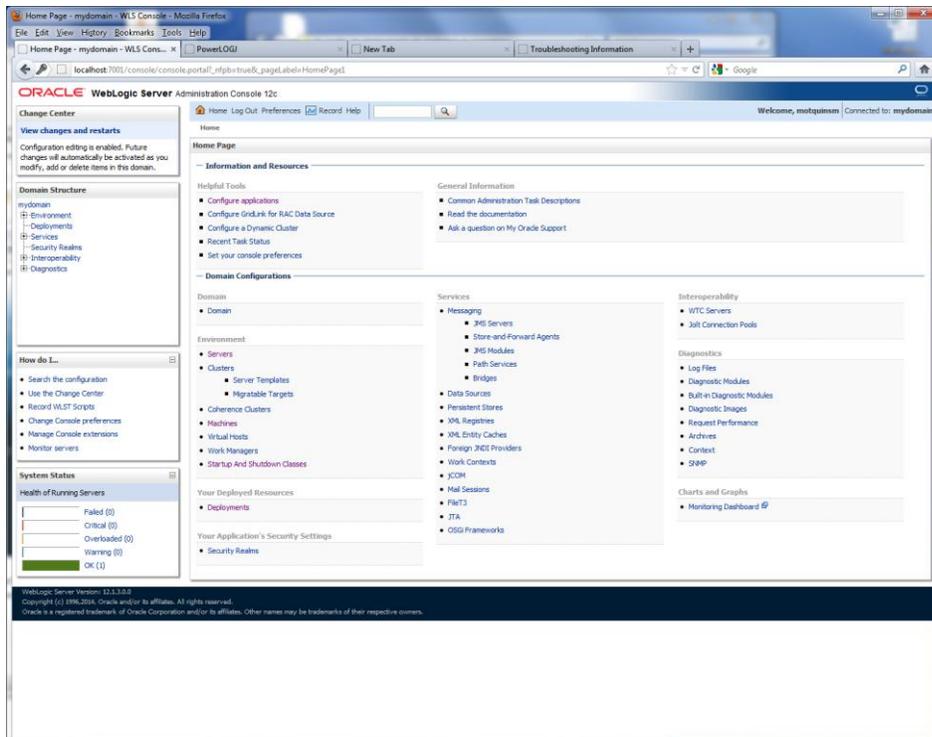
- d. Save the file as “powerlogdb.properties” in the “exploded\powerlogj\WEB-INF\classes” directory. In this case, “C:\Apps\wls1213_dev\wls12130\user_projects\domains\mydomain\config\deployments\exploded\powerlogj\WEB-INF\classes”.



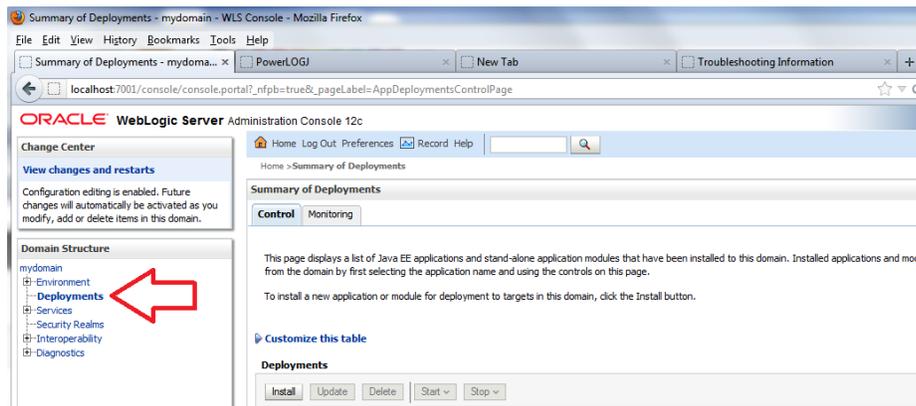
- 9. Deploy the PowerLOGJ 2.0 web application
 - a. Using an Internet Browser, type the following address in the “URL”, “http://localhost:7001/console”.



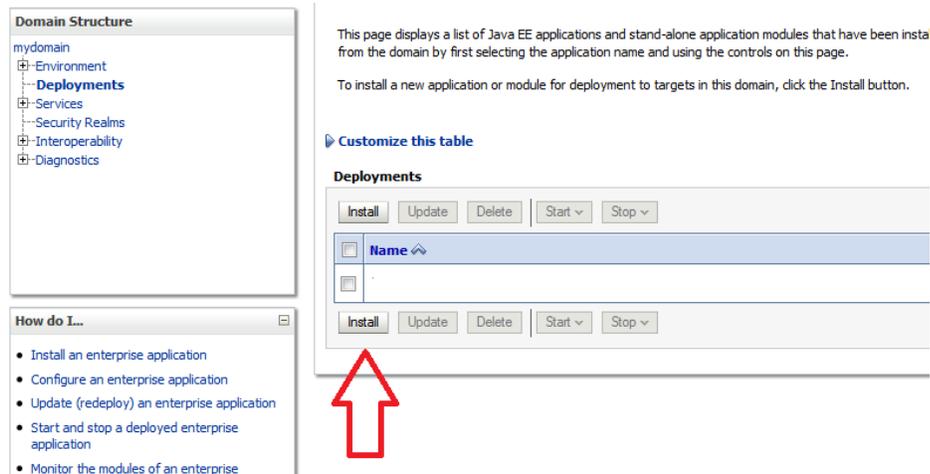
- b. Enter the "Username" and "Password" fields to log into the "Administrative Console". The "WebLogic Server Administration Console" will appear.



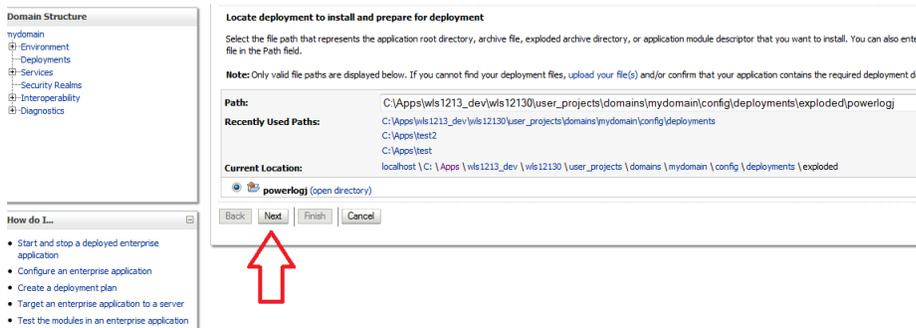
- c. Select the “Deployment” link on the left hand side of the screen, underneath the “mydomain” link.



- d. Click on the “Install” button to begin the deployment of the PowerLOGJ web application



- e. Browse to the “exploded\powerlogj” directory. Ensure that the radio button labeled “powerlogj” is selected and click on the “Next” button. In this case, “C:\Apps\wls1213_dev\wls12130\user_projects\domains\mydomain\config\deployments\exploded.”



- f. Ensure the “Install this deployment as an application” radio button is selected and click the “Next” button.

View changes and restarts
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.

Domain Structure
mydomain
 - Environment
 - Deployments
 - Services
 - Security Realms
 - Interoperability
 - Diagnostics

How do I...
 • Start and stop a deployed enterprise application

Home > Summary of Deployments > mydomain > Summary of Deployments

Install Application Assistant
 Back Next Finish Cancel

Choose targeting style
 Targets are the servers, clusters, and virtual hosts on which this deployment will run.

Install this deployment as an application
 The application and its components will be targeted to the same locations. This is the recommended option.

Install this deployment as a library
 Application libraries are deployments that are available for other deployments to share.

Back Next Finish Cancel

g. Type “powerlog2” in the “Name” field and click the “Next” button.

Install Application Assistant - mydomain - WLS Console - Mozilla Firefox

File Edit View History Bookmarks Tools Help

Install Application Assistant - mydom... x New Tab Troubleshooting Information

localhost:7001/console/console.portal?AppApplicationInstallForList_actionOverride=/com.bea.console.actions.app/install.targetStyleSelected

ORACLE WebLogic Server Administration Console 12c

Home Log Out Preferences Record Help

Home > Summary of Deployments > mydomain > Summary of Deployments

Install Application Assistant
 Back Next Finish Cancel

Optional Settings
 You can override these settings or accept the defaults.
 * Indicate if you override.

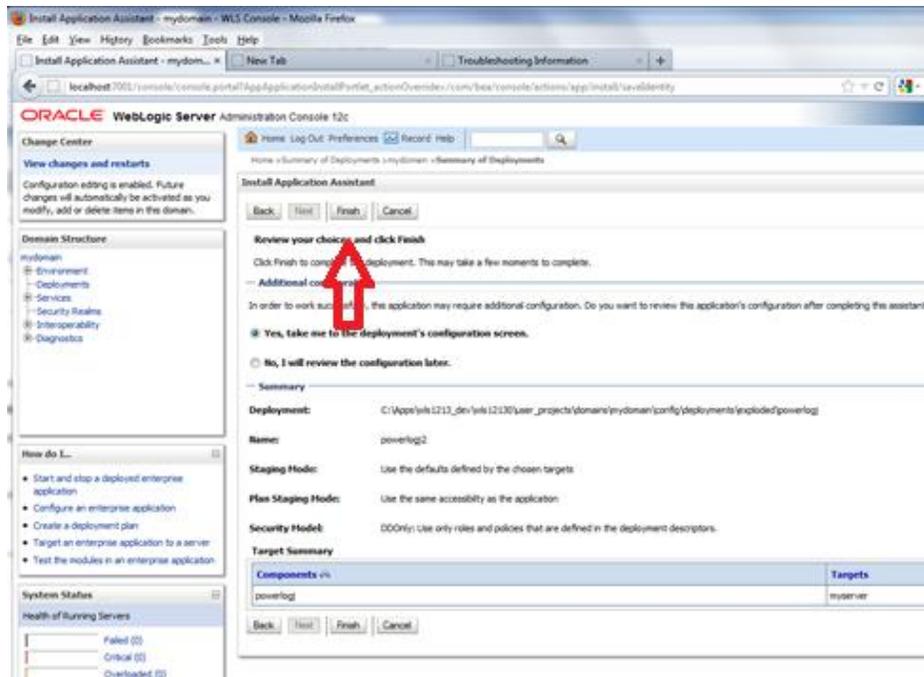
General
 What do you want to name this deployment?
 * Name: powerlog2

Security
 What security model do you want to use with this application?
 DO Only: Use only roles and policies that are defined in the deployment descriptors.
 Custom Roles: Use roles that are defined in the Administration Console; use policies that are defined in the deployment descriptor.
 Custom Roles and Policies: Use only roles and policies that are defined in the Administration Console.
 Advanced: Use a custom model that you have configured on the realm's configuration page.

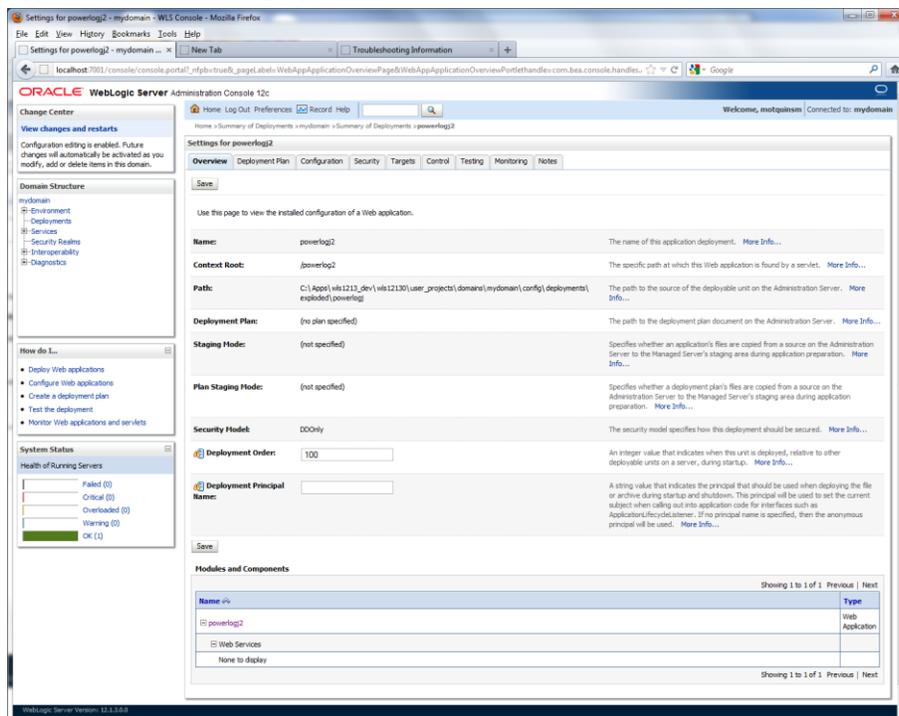
Source Accessibility
 How should the source files be made accessible?
 Use the defaults defined by the deployment's targets
 Recommended selection:
 Copy this application onto every target for me
 During deployment, the files will be copied automatically to the Managed Servers to which the application is targeted.
 I will make the deployment accessible from the following location
 Location: C:\Apps\jafs1213_dev\jafs12130\user_projects\domain1

Provide the location from where all targets will access the application's files. This is often a shared directory. You must ensure the application files exist in this location.

h. Accept the default values and click the “Finish” button.

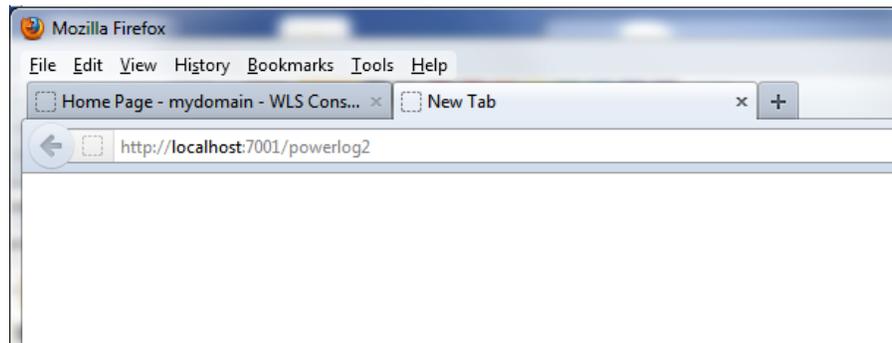


- i. WebLogic Application Server will start to deploy the PowerLOGJ web application to the server. This may take several minutes. Once done deploying, an “Overview” of the application will be displayed.

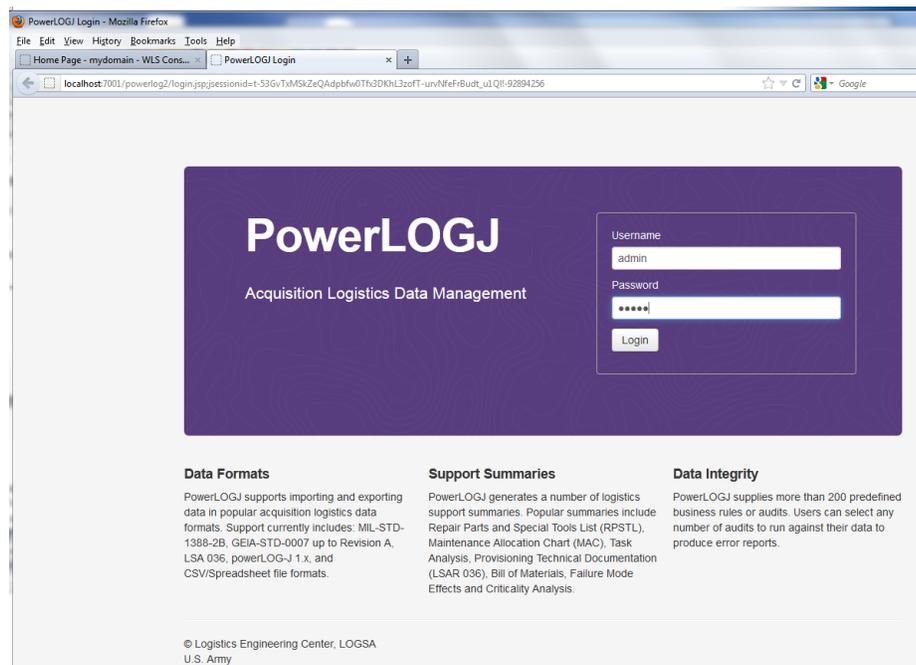


10. Start the PowerLOGJ 2.0 Web Application

- a. Open a browser, such as, Mozilla, Firefox, Internet Explorer and type in the following web address: “http://<machine name>:7001/powerlog2”. “The <machine name>” is the DNS host name or IP address where WebLogic was installed.



- b. Type in “admin” in the “user name” and “admin” for the “password” and click the “Log in” button to start the PowerLOGJ 2.0 Web Application.



- c. PowerLOGJ 2.0 is just about ready to be used. The last step is to configure the “Users” and “Groups”. PowerLOGJ 2.0 enables each “Group” and/or “User” for each “System” to have access to the underlying database tables and features within the application. Instructions on how to accomplish this can be found at the PowerLOG website or by contacting the LOGSA’s Logistics Engineering Center – Technical Support Branch.